COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	12.52	184.35

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.50	-1.50

FILE 'REGISTRY' ENTERED AT 11:42:49 ON 12 SEP 2006

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 11 SEP 2006 HIGHEST RN 906423-10-7
DICTIONARY FILE UPDATES: 11 SEP 2006 HIGHEST RN 906423-10-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

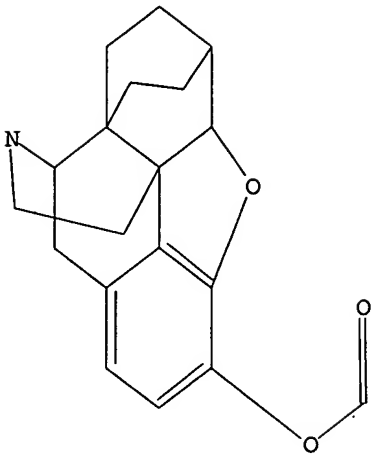
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

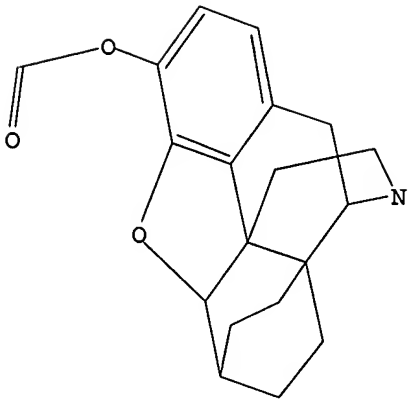
http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\10645557-2.str

L5 STRUCTURE UPLOADED

=> d l5
L5 HAS NO ANSWERS
L5 STR





Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SCREEN SEARCH COMPLETED -       10 TO ITERATE

100.0% PROCESSED       10 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:           11 TO      389
PROJECTED ANSWERS:               0 TO        0

L6             0 SEA SSS SAM L5

=> s l5 ful
FULL SEARCH INITIATED 11:43:32 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      154 TO ITERATE

100.0% PROCESSED      154 ITERATIONS                                2 ANSWERS
SEARCH TIME: 00.00.01

L7             2 SEA SSS FUL L5

=> d his

     (FILE 'HOME' ENTERED AT 11:38:13 ON 12 SEP 2006)
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L1              STRUCTURE UPLOADED
L2            0 S L1
L3            2 S L1 FUL

     FILE 'CAPLUS' ENTERED AT 11:40:00 ON 12 SEP 2006
L4            2 S L3

     FILE 'REGISTRY' ENTERED AT 11:42:49 ON 12 SEP 2006
L5              STRUCTURE UPLOADED
L6            0 S L5
L7            2 S L5 FUL

=> s l7 not l3
L8            0 L7 NOT L3
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http://www.cas.org/infopolicy.html

=> s l3
L4 2 L3

=> d abs bib hitstr 1-2

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Claimed are buprenorphine monocarboxylates I [R = linear or branched (un)saturated aliphatic group optionally substituted with aryl, or aryl optionally substituted with linear or branched (un)saturated aliphatic group; with the proviso that R is not selected from Me, Et, Pr, Bu, pentyl, hexyl, CH(Me)2], and buprenorphine dicarboxylic acid diesters II [R1 = divalent group derived from (un)saturated aliphatic group optionally substituted with Ph], which exert a longer analgesic effect as compared with buprenorphine hydrochloride. Also claimed are the processes for preparation of I and II, and long-acting analgesic pharmaceutical compns. containing ≥1 selected from buprenorphine, I, and II and oily vehicles, and a method to bring analgesia by administering the compns. to animals or human. A composition containing II (R1 = sebacoyl), prepared from buprenorphine (HCl) and sebacoyl chloride, and sesame oil exhibited analgesic duration for 96 h at 0.3 μmol/kg i.m.

AN 2004:512395 CAPLUS
DN 141:59722
TI Buprenorphine monocarboxylic or dicarboxylic acid derivatives, their preparations, long-acting analgesic compositions containing them, and analgesia using them
IN Wang, Jhi-Joung
PA Chimei Hospital, Taiwan
SO Jpn. Kokai Tokkyo Koho, 86 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

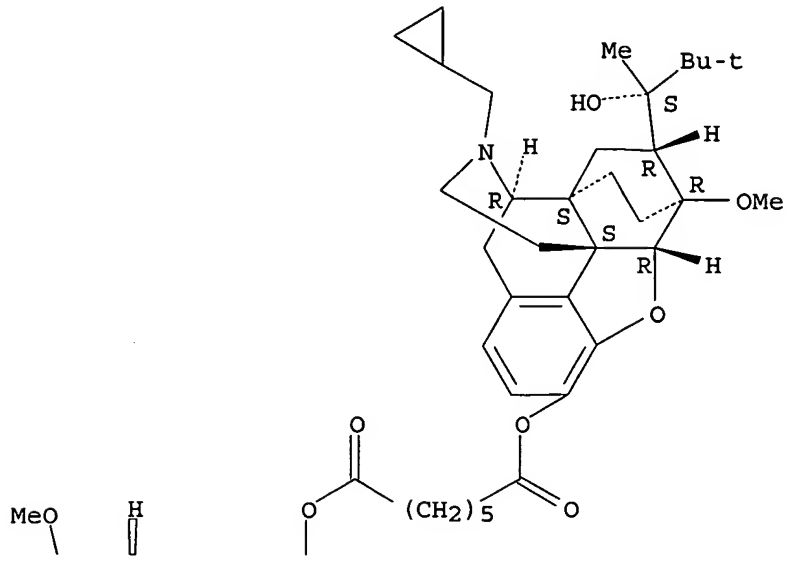
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2004175706	A2	20040624	JP 2002-342688	20021126
PRAI JP 2002-342688		20021126		

OS MARPAT 141:59722
IT 693242-79-4P, Dibuprenorphine pimelate 693242-80-7P, Dibuprenorphine sebacoyl ester
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of buprenorphine monocarboxylic or dicarboxylic acid esters and long-acting analgesic compns. containing them)
RN 693242-79-4 CAPLUS
CN 6,14-Ethenomorphinan-7-methanol, 3,3'-[(1,7-dioxo-1,7-heptanediyl)bis(oxy)]bis[17-(cyclopropylmethyl)-α-(1,1-

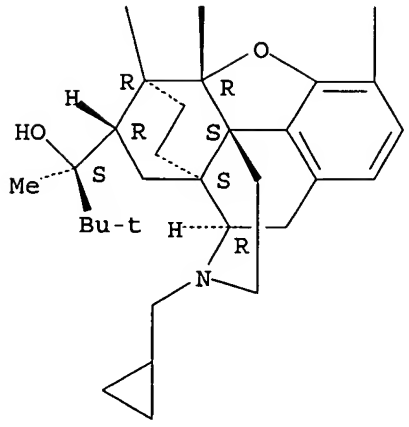
dimethylethyl)-4,5-epoxy-18,19-dihydro-6-methoxy-α-methyl-, (αS,5α,7α)-(α'S,5'α,7'α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 2-A

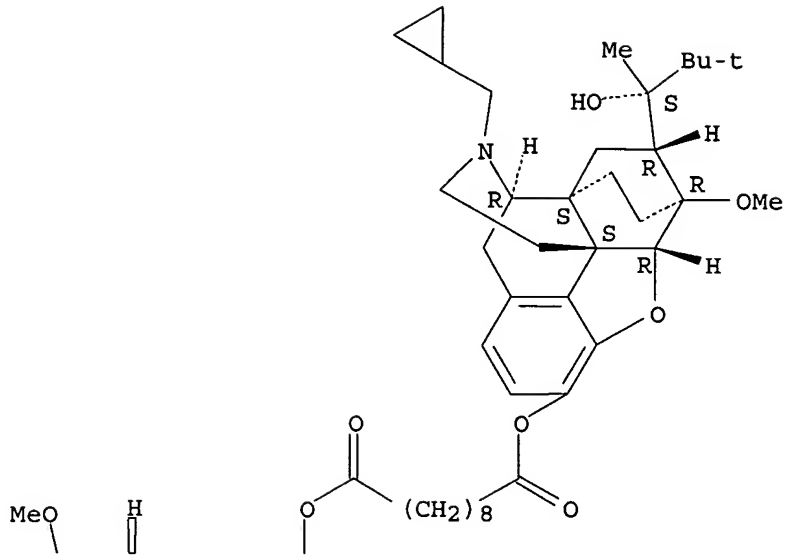


RN 693242-80-7 CAPLUS
CN 6,14-Ethenomorphinan-7-methanol, 3,3'-[(1,10-dioxo-1,10-decanediyl)bis(oxy)]bis[17-(cyclopropylmethyl)-α-(1,1-dimethylethyl)-4,5-epoxy-18,19-dihydro-6-methoxy-α-methyl-, (αS,5α,7α)-(α'S,5'α,7'α)- (9CI) (CA

INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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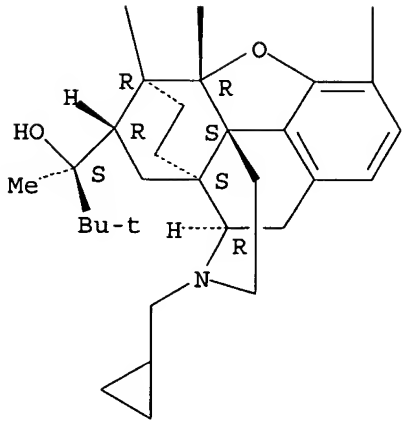


L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Disclosed herein are novel buprenorphine monocarboxylic ester derivs., such as I [R = straight-chain or branched saturated or unsatd. aliphatic group optionally substituted with an aryl group, or an aryl group optionally substituted with straight-chain or branched saturated or unsatd. aliphatic group;
with the proviso that R is not selected from Me, Et, (CH)2Me, (CH)3Me, (CH)4Me, (CH)5Me, CH(Me)2], and dibuprenorphine dicarboxylic ester derivs., such as II [R1 = divalent moiety of a saturated or unsatd. aliphatic group optionally substituted with Ph group], which exert a longer analgesic effect as compared to buprenorphine hydrochloride. Also disclosed are the processes for synthesizing I and II, and long-acting analgesic pharmaceutical compns. containing a compound selected from buprenorphine base and the novel ester derivs. of buprenorphine. Thus, dibuprenorphine pimelate II [R1 = (CH2)5], prepared by the reaction of buprenorphine hydrochloride and pimelic dichloride, exhibited analgesic duration for 72 h at a dose of 0.3μM/kg.

AN 2004:427626 CAPLUS

DN 140:423853

TI Preparation and long acting analgesic pharmaceutical composition of ester derivs. of buprenorphine

IN Wang, Jhi-joung

PA Chi Mei Foundation Medical Center, Taiwan

SO Eur. Pat. Appl., 51 pp.
CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1422230	A1	20040526	EP 2002-258083	20021125
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
	CN 1500786	A	20040602	CN 2003-178705	20030715
	US 2005075361	A1	20050407	US 2003-645557	20030822
PRAI	US 2002-291614	A	20021112		
	EP 2002-258083	A	20021125		

OS MARPAT 140:423853

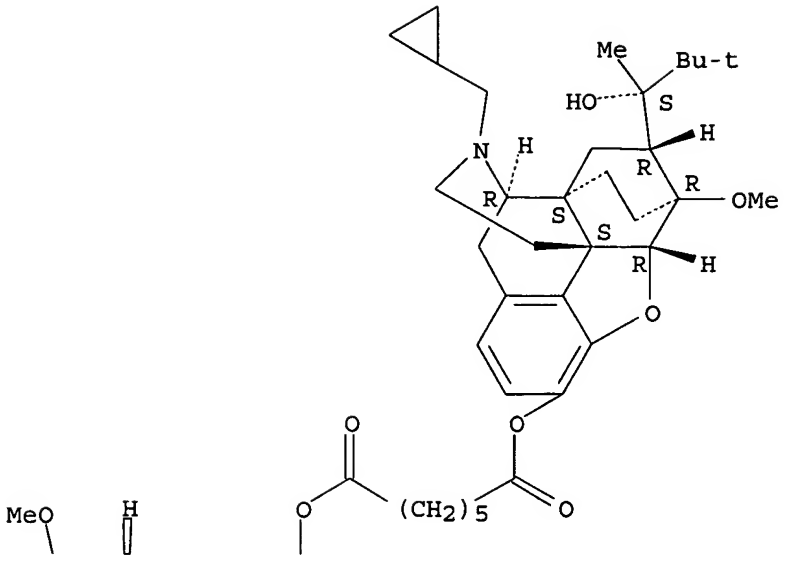
IT 693242-79-4P, Dibuprenorphine pimelate 693242-80-7P, Dibuprenorphine sebacoyl ester
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation and analgesic pharmaceutical composition of ester derivs. of buprenorphine)

RN 693242-79-4 CAPLUS

CN 6,14-Ethenomorphinan-7-methanol, 3,3'-[(1,7-dioxo-1,7-heptanediyl)bis(oxy)]bis[17-(cyclopropylmethyl)-α-(1,1-dimethylethyl)-4,5-epoxy-18,19-dihydro-6-methoxy-α-methyl-, (αS,5α,7α)-(α'S,5'α,7'α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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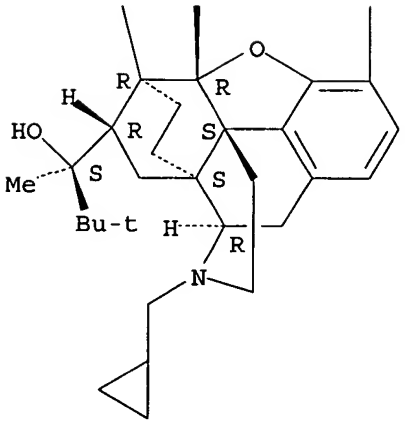
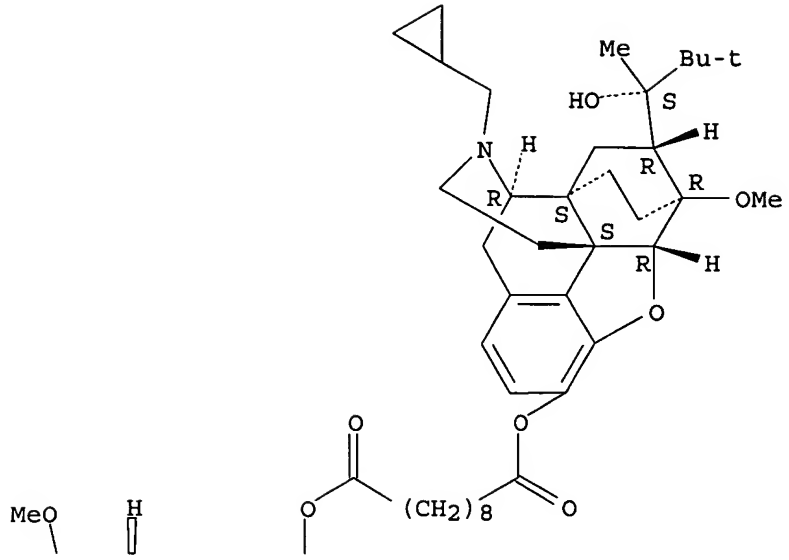


RN 693242-80-7 CAPLUS
CN 6,14-Ethenomorphinan-7-methanol, 3,3'-[(1,10-dioxo-1,10-decanediyl)bis(oxy)]bis[17-(cyclopropylmethyl)-α-(1,1-dimethylethyl)-4,5-epoxy-18,19-dihydro-6-methoxy-α-methyl-, (αS,5α,7α)-(α'S,5'α,7'α)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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